SERVICE MANUAL 6300

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model 6300

Turntable

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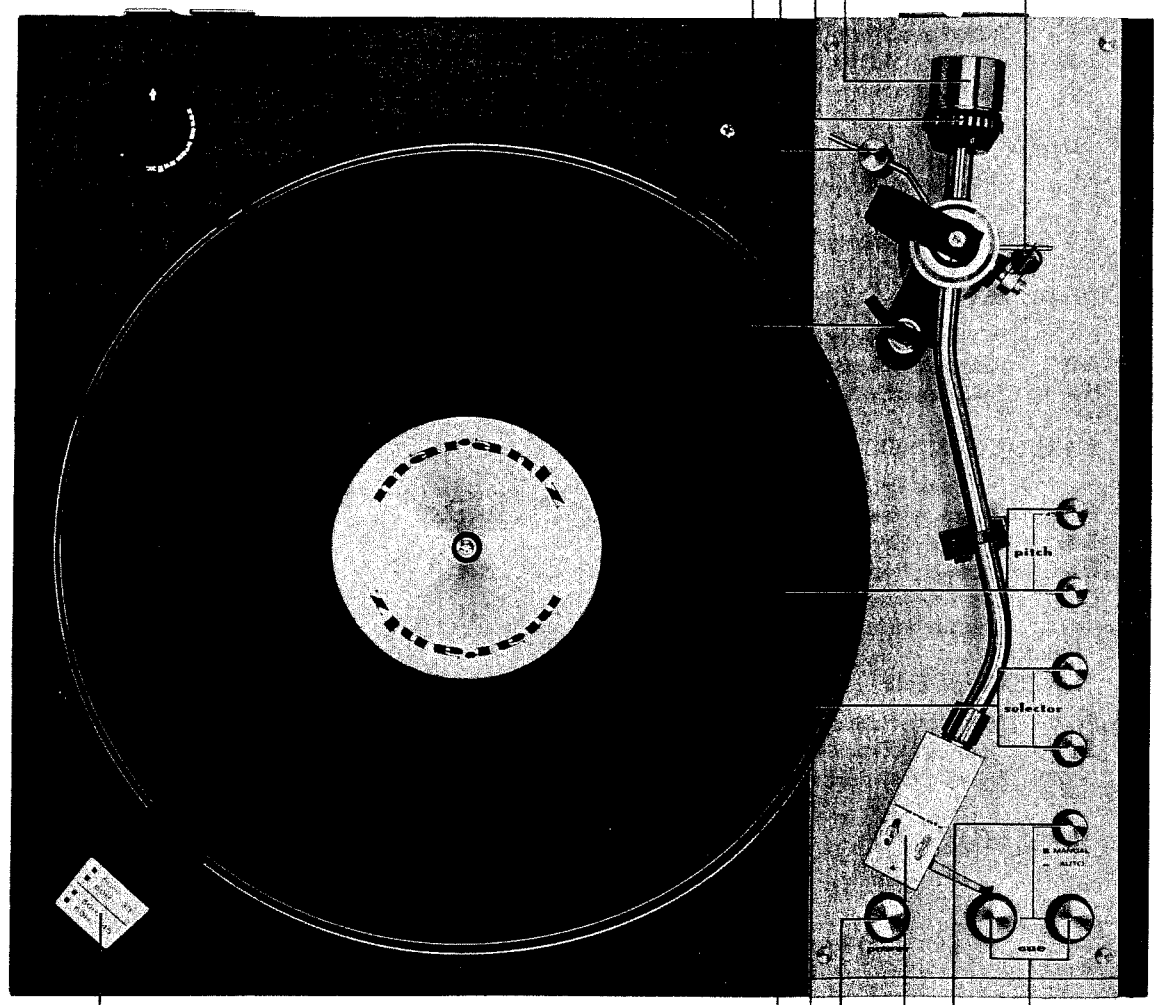
MARANTZ MODEL 6300 TURNTABLE



1. PERFORMANCE SPECIFICATIONS

GENERAL

Speeds:	33-1/3, 45 rpm
Speed Control (PITCH) range:	6% (±3%)
Drive System:	Direct Drive
Drive Motor:	DC Servo-Controlled
Platter Weight:	3 lbs. 8 oz. (1.6 kg)
Platter Diameter:	12 1/8 in. (31.0 cm)
Rumble (DIN):	−60 dB
Wow and Flutter:	0.04% (WRMS)
Power Requirements:	120 VAC, 60 Hz (USA and Canda Model) 110/120/220/240 VAC 50/60 Hz (European Model)
Power Consumption:	12 Watts
Dimensions:	17-1/8 in. Wide x 7-1/32 in. High x 14-13/16 in. Deep. (435mmx180mmx381mm)
Weight:	21.4 lbs. (9.7 kg) Unpacked 28.6 lbs. (13 kg) Packed for Shipment

TONE ARM

Type:	SA-300
Length:	9-1/8 in. (231 mm)
Overhang:	15mm
Tracking Force Adjustment Range:	0 — 4.0 g
Anti-Skating Force Compensation Range:	0 — 2.5 g

2. CIRCUIT OPERATION

2-1. AUTO MODE

1. CUE-DOWN

After placing the tone arm over the record and pressing the CUE-DOWN button the following sequence of operations will occur.

The CUE-DOWN button mechanically unlatches solenoid L002 and places switches S003, S005, S006, S009 and S010 in their released or unlatched position. The unlatching of L002 causes the push plate, Ref. Desig. 0630, which is secured to L002 to move in a downward direction. This in turn allows the hydraulically dampened arm lifter to lower, thereby lowering the tone arm onto the record.

2. CUE-UP

To lift the tone arm and stop the turntable before the end of the record, press the CUE-UP button (S007). When the CUE-UP button is pressed, an increased voltage is applied to the gate of thyristor H805 causing it to conduct and energize solenoid L002. (continued under SHUT-OFF SEQUENCE OF OPERATIONS.)

3. AUTOMATIC SHUT-OFF

At the end of the record as the tone arm nears the center spindle, the light shield, Ref. Desig. 1329 which is attached to the underside of the tone arm, has traveled to a point where it blocks the light emitted by the light emitting diode LN25 from reaching phototransistor PH101. When this occurs, the collector voltage of PH101 increases which inturn causes the gate voltage of thyristor H805 to increase thereby enabling H805 to conduct and energize L002. (continued under SHUT–OFF SEQUENCE OF OPERATIONS.)

4. SHUT-OFF SEQUENCE OF OPERATIONS

Energizing L002 causes it to latch and places switches S003, S005, S006, S009 and S010 in their latched position. When latched, switch S006 opens the collector circuit of H805 causing L002 to de-energize (while remaining in a mechanically latched position).

The latching action of L002 causes the previously referred to push plate, Ref. Desig. 0630, to move in an upward direction, raising the arm lifter which raises the tone arm from the record. The same latching operation removes power to the motor via S005, removes power to the primary of the AC transformer via S003 and mutes the audio output via S009 and S010.

2-2. MANUAL MODE

Placing the MANUAL/AUTO switch (S002 and S004) in the MANUAL position has the following effect on circuit operation:

1. Renders PH101 ineffective by adding R805 to the collector circuit thereby reducing collector current and voltage to a level insufficient to trigger H805.
2. Prevents the CUE button from having any effect on voltage supplied to the motor or transformer.

2-3. PHOTO UNIT H002

The photo unit H002 consists of LN25, a red light emitting diode; and PH101, an NPN Epitaxial Darlington photo-transistor. Whenever power is applied to the turntable, LN25 will conduct a current of approximately 17 mA causing it to emit a red light.

PH101 when exposed to this light will conduct. In the AUTO mode the collector load resistance of PH101 is comprised of only R809 (R805 is bridged by S004) thus enabling approximately 1.2 mA to flow through the circuit of PH101. The resultant collector voltage of PH101 is coupled to the gate of thyristor H805, but the low level voltage is insufficient to trigger H805 conduction.

This condition remains until at a preset position of the tone arm travel, the light of LN25 is prevented from reaching PH101. When this occurs the conduction of PH101 decreases, collector voltage of PH101 increases thereby increasing the gate voltage of H805 and triggering H805 conduction.

3. ADJUSTMENTS

3-1. AUTOMATIC SHUT-OFF CHECK AND ADJUSTMENT

1. AUTOMATIC SHUT-OFF CHECK

In the AUTO mode, if the tone arm does not automatically lift at the end of a record, check for the following;

A. The tone arm lifter should move downward when CUE-DOWN is pressed.
B. MAUAL/AUTO switch must be in the AUTO position.
C. The voltage measured between J805 and J813 should be approximately 1.7 V when H002 is turned "on" by the light emitted from LN25.
D. The voltage measured between J811 and J813 should be 1.5 V or less with H002 conducting.

2. AUTOMATIC SHUT-OFF ADJUSTMENT

Triggering of the Automatic Shut-off should take place at the end of a record as the tone arm approaches the center spindle. To adjust the shut-off triggering, insert a flat blade screwdriver into the hole located at the rear of the turntable base. (refer to Cabinet-Rear View, section 6-2 for exact location.)

To adjust for earlier triggering turn the screw counterclockwise.

To adjust for later triggering (nearer the center spindle) turn the screw clockwise.

3-2. TONE ARM ADJUSTMENTS

After a cartridge is mounted, several adjustments must be made to optimize turntable performance. First, the stylus overhang must be adjusted; then the tone arm balance, lateral balance, tracking force, and anti-skating force.

1. STYLUS OVERHANG

The Model 6300 Turntable is designed to operate with the least distortion when the tip of the stylus is at a particular distance from the tone arm pivot. For this reason, the cartridge shell is slotted, allowing the cartridge with its mounting screws to be slid toward or away from the pivot point. This, in effect, changes the radius of the arc described by the stylus. Supplied in the accessory kit is a 45 RPM spindle adaptor. The adaptor has been specially marked with an arrow and a dot to aid you in setting the proper stylus overhang. Proceed as follows:

A. With the turntable stopped, place the 45 RPM adaptor on the center spindle with the arrow pointing to the rear of the turntable.
B. Remove the arm from its arm rest and remove the protective cover (if any) from the stylus.
C. Place the stylus tip over the 45 RPM adaptor and adjust the cartridge so that the stylus tip will be perfectly centered in the dot.
D. Make sure that the cartridge is installed straight. The sides of the cartridge must remain parallel to the sides of the shell.
E. Snug up the mounting screws.

2. VERTICAL TONE ARM BALANCE

The adjustable counterweight at the end of the tone arm establishes tone arm balance and stylus tracking force. Since no two types of cartridges weigh the same, the balance and tracking force must be adjusted for each cartridge being used.

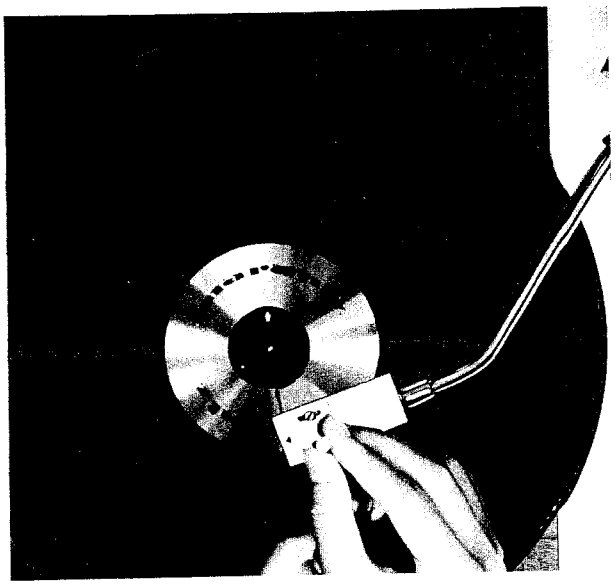


Figure 3-2-1. Stylus Overhang Adjustment

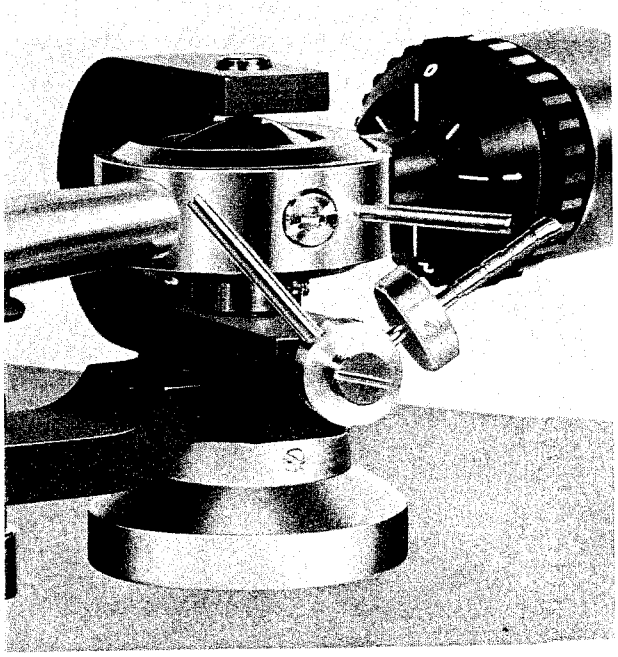


Figure 3-2-2. Tone Arm Balance Adjustment

First, to establish a point of reference, the entire arm assembly (with cartridge installed) must be balanced. If the cartridge has a removable stylus protector, remove it, (as you would to play a record). Release the tone arm from the arm rest.

To adjust the tone arm balance, set the anti-skate weight at minimum (see Figure 3-2-4) and disable the action of the anti-skate mechanism by lifting the anti-skate weight as shown in Figure 3-2-2. The tone arm should be positioned so that the anti-skate mechanism does not influence the arm.

To balance the arm, adjust the position of the counterweight by rotating it. A numbered stylus pressure scale plate is located immediately in front of the counterweight. Rotating the scale plate alone does not change the counterweight's position. To change the balance, grasp and turn the counterweight itself.

Adjust the weight so that the arm is level (parallel to the turntable surface) with the cartridge suspended in mid air.

Then, without moving the counterweight, set the stylus pressure scale plate to indicate zero. This establishes a reference point for setting the tracking force, which is set after checking the lateral balance.

3. LATERAL BALANCE

The lateral balance adjustment is made while the cartridge is suspended above the platter surface. The purpose of the adjustment is to assure that the tone arm is not influenced by any undesirable lateral (sideways) forces.

The lateral balance weight is located to the left of the counterweights. It is secured with a small set screw.

Place the arm in the same position as for checking vertical balance. Then, tilt the entire turntable by lifting first the left side, then the right about two inches. The arm should not move when the turntable is tilted. If it does, change the position of the lateral balance weight until no movement of the arm is observed when the turntable is tilted. The weight position can be changed by loosening the small set screw on the weight as shown in Figure 3-2-3.

4. TRACKING FORCE

For the recommended tracking force, refer to the instructions that accompany the cartridge.

Tracking force, the downward pressure of the stylus against the record, is produced by simply setting the arm off balance in the appropriate direction. That is, the counterweight is screwed inward (toward the arm pivot) until the desired downward pressure is achieved.

The stylus pressure scale plate is in frictional contact with the counterweight, so that they rotate together when the counterweight is turned. The numbers on the scale plate correspond to the tracking force measured in grams. So, if the desired tracking force is tow grams, turn the counterweight inward until the stylus pressure scale plate registers 2.

5. ANTI-SKATING ADJUSTMENT

The anti-skating lever is provided to counteract the natural tendency for the arm to "skate" toward the center of the record as it is being played. The more tracking force used, the more anti-skating force required.

The anti-skating weight is adjustable with notched graduations that correspond with the tracking force markings on the stylus pressure scale plate.

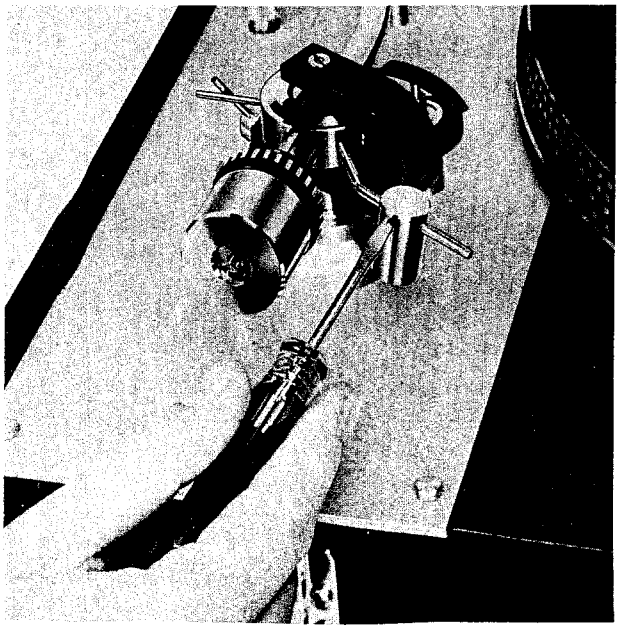


Figure 3-2-3. Lateral Balance Weight

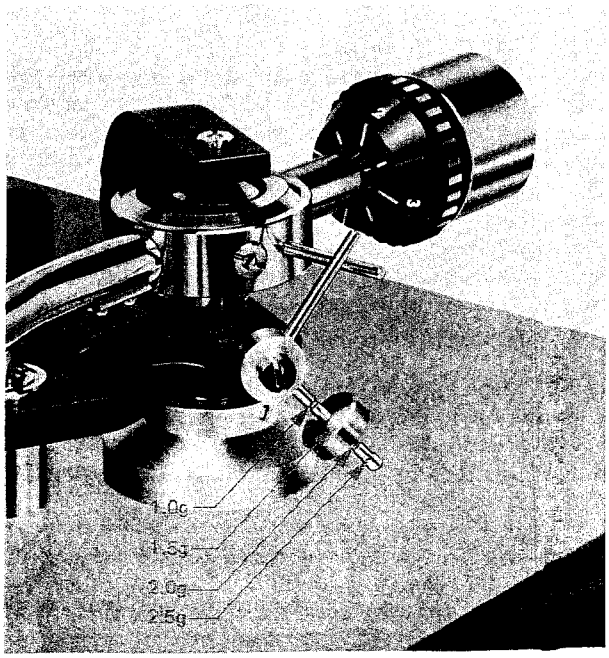


Figure 3-2-4. Anti-Skating Mechanism

The weight is placed in the notch nearest the end of the lever for a tracking force of 2.5 grams. The next three notches inward correspond to 2.0, 1.5, and 1.0 grams, respectively. (See Figure 3-2-4.)

Place the arm in the arm rest.

6. STYLUS TRACKING ANGLE

After setting up the arm for playing, it is important to check the tracking angle, because improper tracking angle will cause distortion and premature record wear. Most phono cartridges are designed so that when the cartridge is mounted on a surface parallel with the record surface, the stylus will track at the proper angle (see Figure 3-2-5). The surface inside of the cartridge shell (against which the cartridge is mounted) is parallel to the record surface when the tone arm is level. Visually check the angle of the tone arm in actual playing position. If it is not level and parallel with the record surface, then it is necessary to change the height of the tone arm's pivot.

NOTE: **Some cartridges are built so that their bodies are at an angle with respect to their own mounting tabs. No attempt should be made to change this angle. Simply make sure that the cartridge mounting tab surfaces are parallel to the tone arm shell mounting surface before proceeding with the arm height adjustment.**

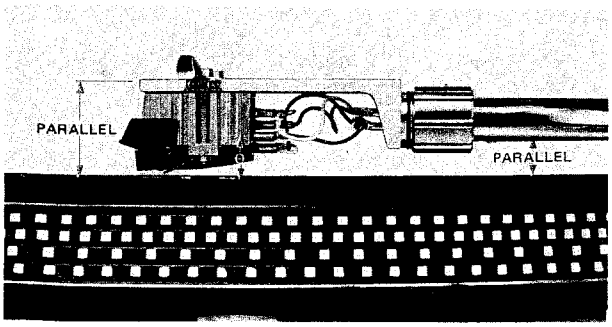


Figure 3-2-5. Tracking Angle

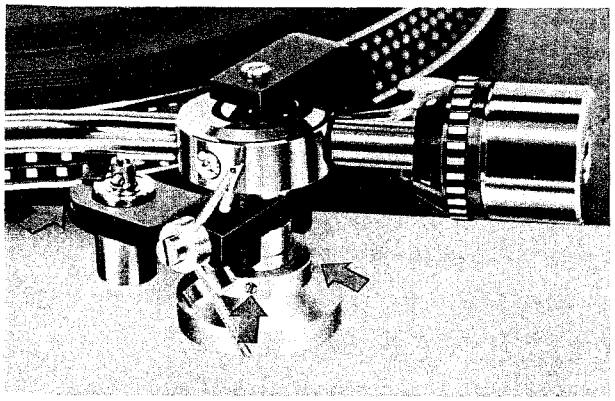


Figure 3-2-6. Pivot Height Adjustment

To adjust the height of the pivot, loosen the two set screws near the base of the pivot mechanism and a third screw that tightens the clamp around the shaft for the arm lifter (see Figure 3-2-6). When the screws are loose, the entire pivot mechanism can be slid up and down.

If the arm cannot be made level in the adjustment range provided, appropriate spacers which were supplied with the cartridge must be inserted between the cartridge and the shell. This, of course, necessitates temporarily removing the cartridge from the shell and rechecking the arm balance and adjustment.

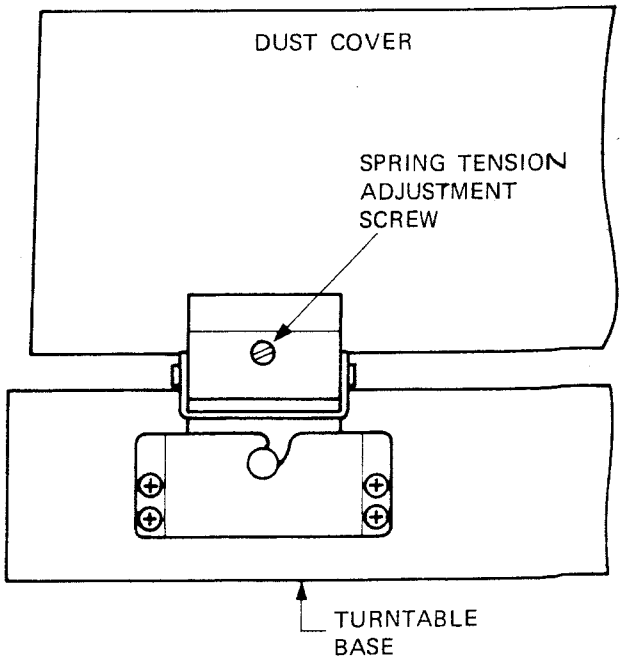
If the height of the arm is modified, it is necessary to check and adjust the height of the arm lifter.

The height of the arm lifter is adjustable by means of a set screw on its vertical shaft. The crescent-shaped lifting platform which contacts the arm should be positioned so it doesn't interfere with the arm while the record is playing, yet lifts it fully when the CUE-UP button is pressed.

3-3. DUST COVER HINGE ADJUSTMENT

The hinges of the dust cover on the Marantz Model 6300 Turntable are equipped with spring tention adjustment screws. Normally, the springs provide sufficient tension and proper damping for the dust cover, so that it will remain fully open when lifted, yet descend gently when pushed down. If desired, the spring tension may be increased to hold the dust cover open at any position.

To increase the tension of the springs, turn the Tention Adjustment screws counterclockwise; to decrease, turn clockwise. About 10 turns of the screws will cover the full range of adjustment.



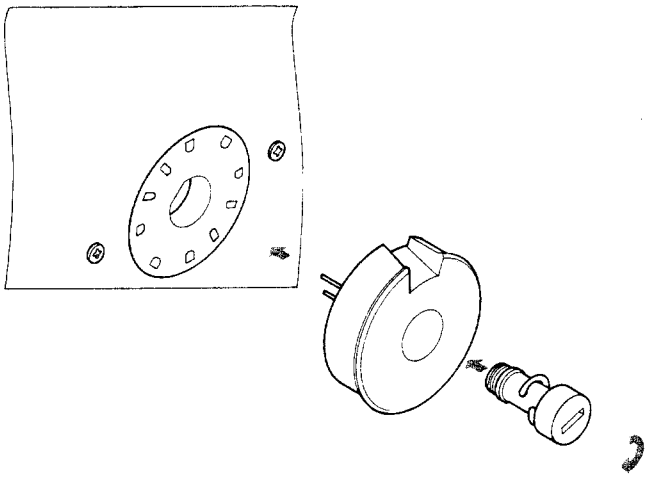
4. SERVICE NOTES

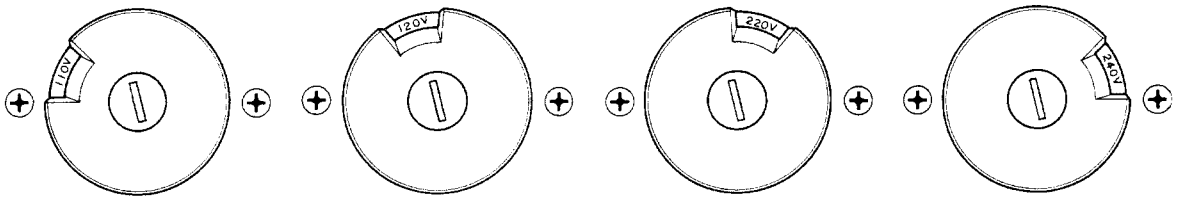
4-1. VOLTAGE CONVERSION FOR EUROPEAN MODEL

The European version of the Model 6300 is equipped with a universal power transformer that may be adjusted to operate at 110V, 120V, 220V, or 240V AC at 50 to 60 Hz.

To convert the unit to a different power source voltage, reposition conversion plug as shown in the illustration below.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.





For 110V Operation | For 120V Operation | For 220V Operation | For 240V Operation

4-2. CARTRIDGE WIRE COLOR CODE

Before a cartridge is screwed into the shell, the small clips at the ends of the wires in the tone arm cartridge shell should be pushed onto their corresponding cartridge connection pins.

TONE ARM CARTRIGES SHELL – WIRE COLOR CODE –	
RIGHT CHANNEL HOT	RED
RIGHT CHANNEL GROUND	GREEN
LEFT CHANNEL HOT	WHITE
LEFT CHANNEL GROUND	BLUE

The cartridge or its accompanying technical sheet will identify the cartridge connection pins. It may be necessary to slightly compress the terminal clips with your fingers to make them fit snugly on the prongs of some cartridges.

4-3. REPLACEMENT PARTS/TECHNICAL ASSISTANCE

1. REPLACEMENT PARTS

Turntable replacement parts may be ordered by writing to;

MARANTZ COMPANY, INC.
PARTS DEPARTMENT
P.O. BOX 577
CHATSWORTH, CALIFORNIA 91311 USA

2. TECHNICAL ASSISTANCE

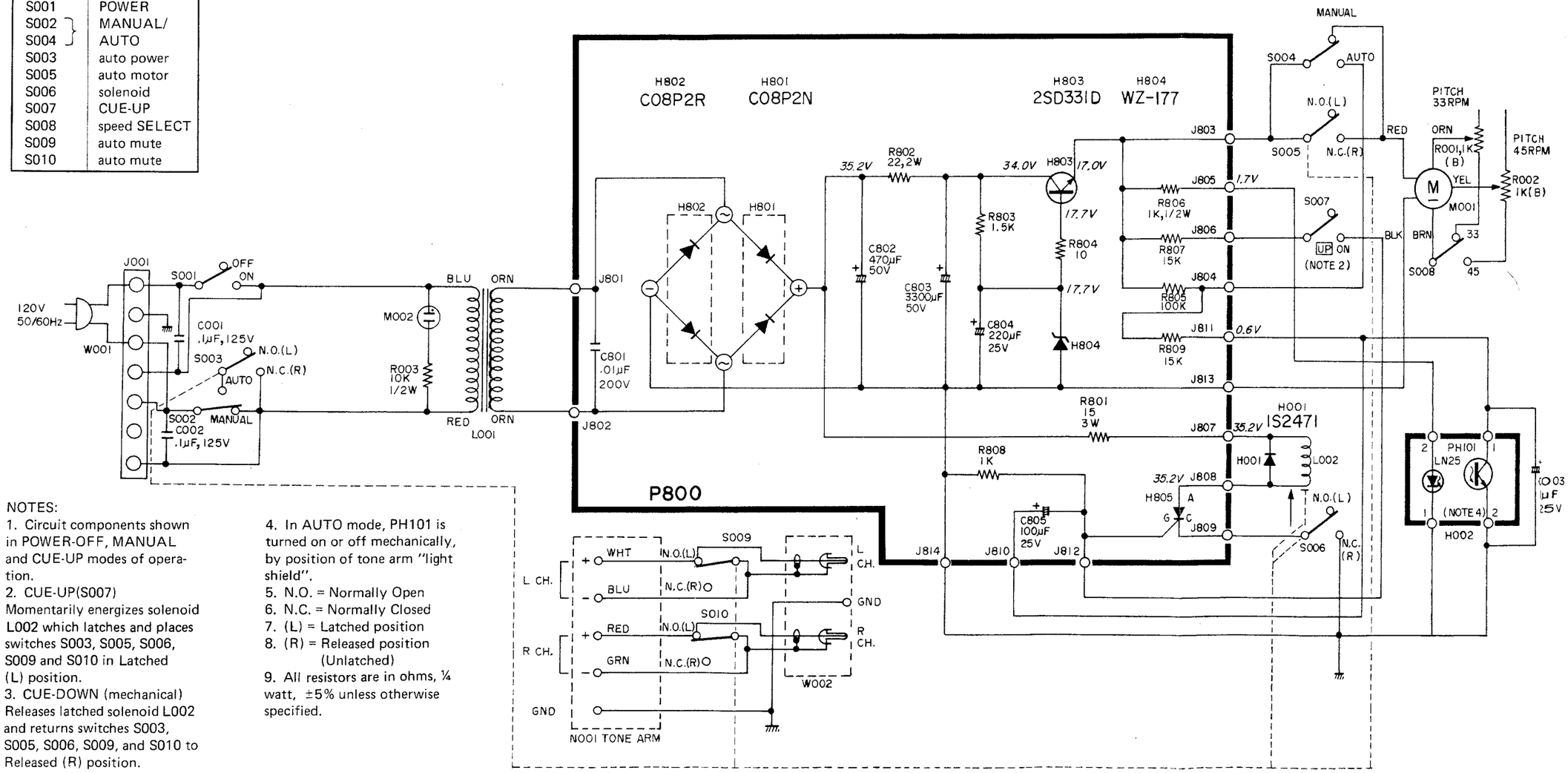
Inquiries regarding the operation and servicing of Marantz equipment should be directed to;

MARANTZ COMPANY, INC.
TECHNICAL SERVICES DEPARTMENT
P.O. BOX 577
CHATSWORTH, CALIFORNIA 91311 USA

5. DIAGRAMS

5-1. SCHEMATIC DIAGRAM-USA AND CANADA

Ref. No.	Switch
S001	POWER
S002 }	MANUAL/
S004 }	AUTO
S003	auto power
S005	auto motor
S006	solenoid
S007	CUE-UP
S008	speed SELECT
S009	auto mute
S010	auto mute



NOTES:

1. Circuit components shown in POWER-OFF, MANUAL and CUE-UP modes of operation.
2. CUE-UP(S007) Momentarily energizes solenoid L002 which latches and places switches S003, S005, S006, S009 and S010 in Latched (L) position.
3. CUE-DOWN (mechanical) Releases latched solenoid L002 and returns switches S003, S005, S006, S009, and S010 to Released (R) position.
4. In AUTO mode, PH101 is turned on or off mechanically, by position of tone arm "light shield".
5. N.O. = Normally Open
6. N.C. = Normally Closed
7. (L) = Latched position
8. (R) = Released position (Unlatched)
9. All resistors are in ohms, ¼ watt, ±5% unless otherwise specified.

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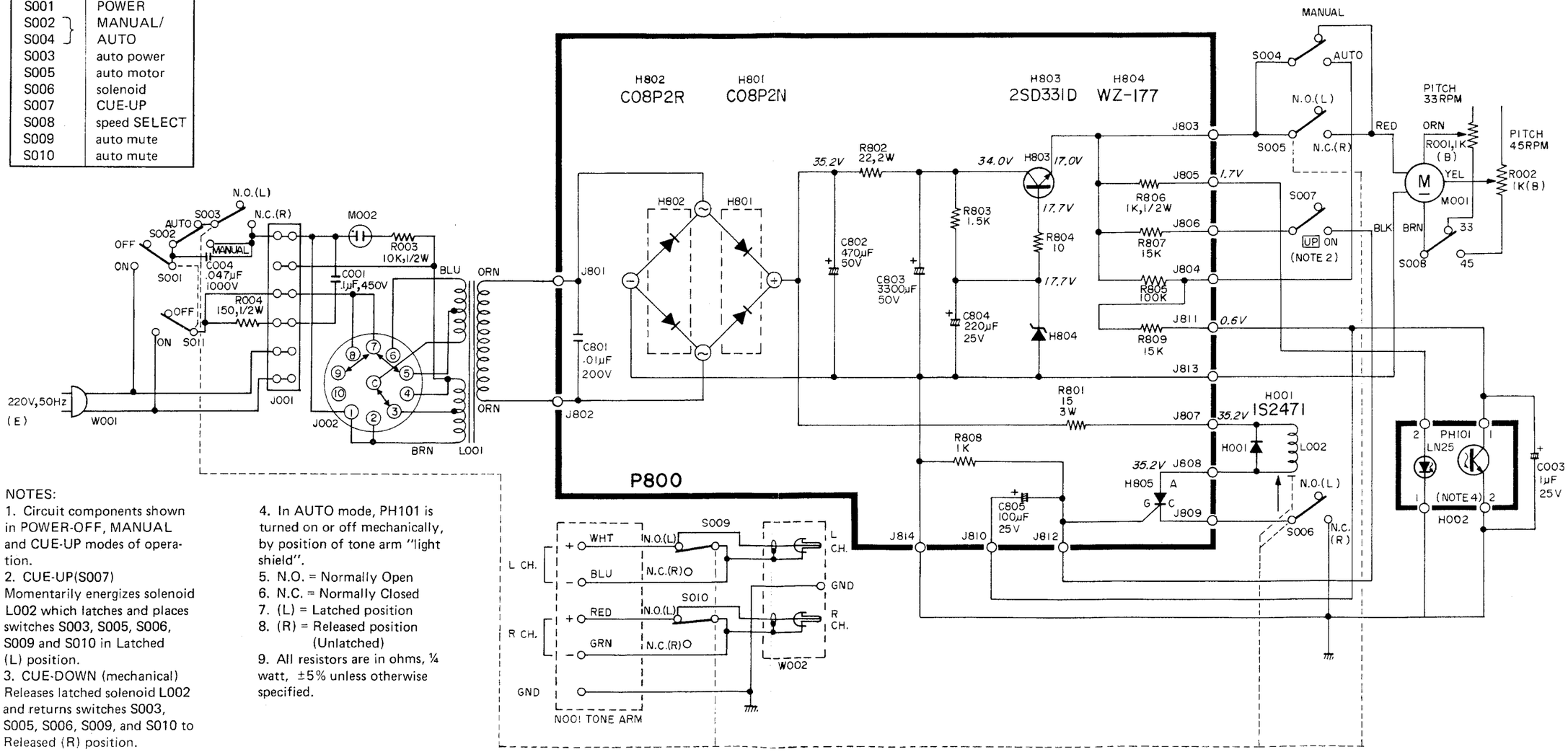
5-2. SCHEMATIC DIAGRAM-EUROPE

Ref. No.	Switch
S001	POWER
S002 }	MANUAL/
S004 }	AUTO
S003	auto power
S005	auto motor
S006	solenoid
S007	CUE-UP
S008	speed SELECT
S009	auto mute
S010	auto mute



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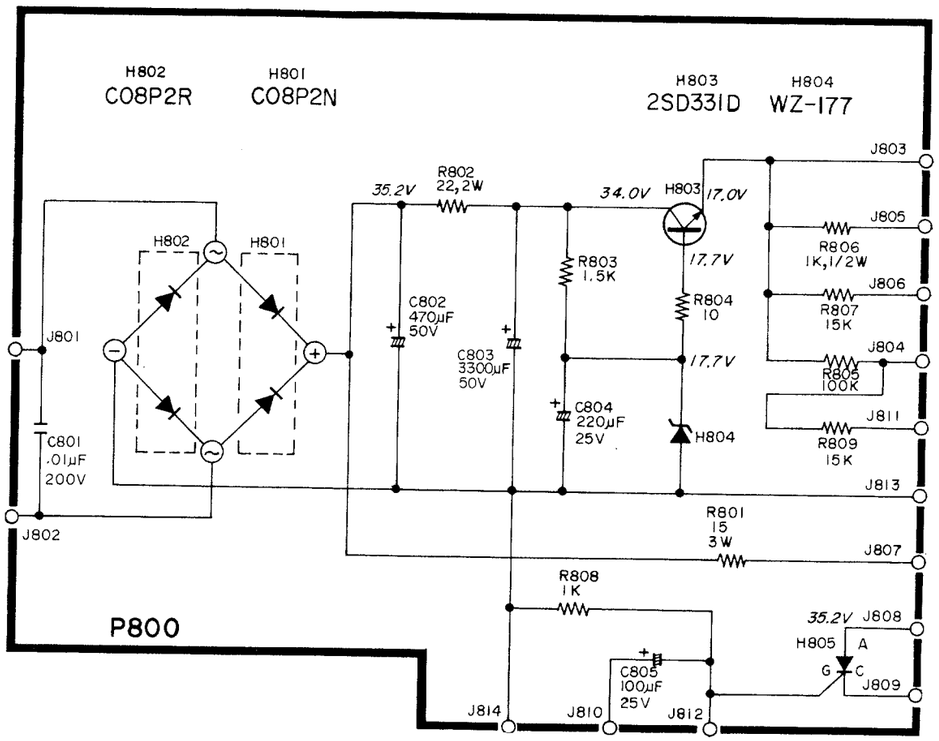
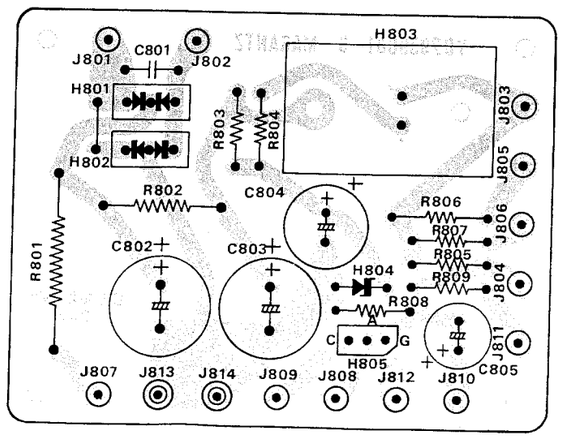
7. (L) = Latched position
8. (R) = Released position (Unlatched)
9. All resistors are in ohms, ¼ watt, ±5% unless otherwise specified.

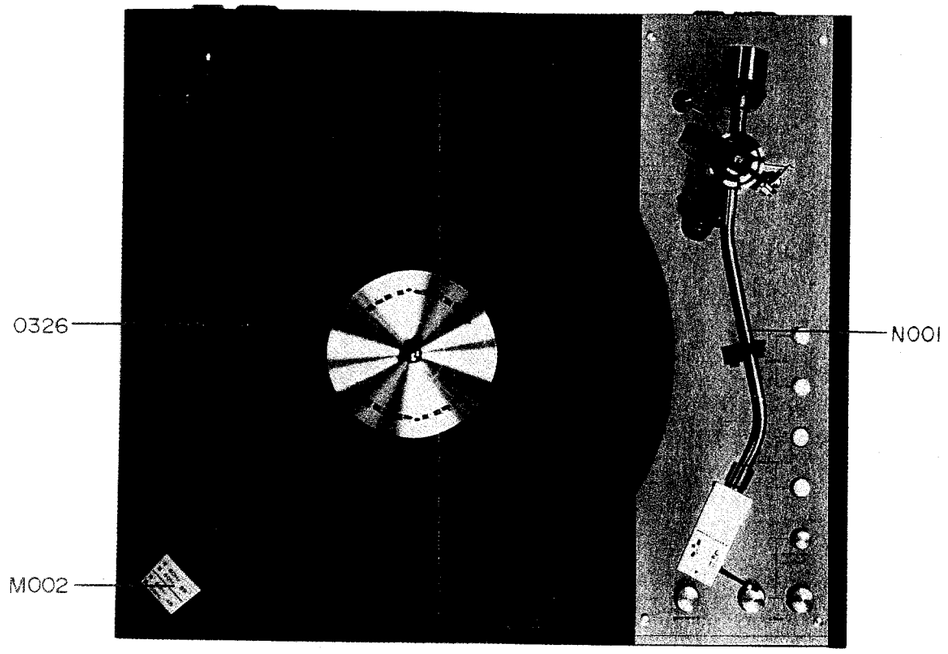
5-3. POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



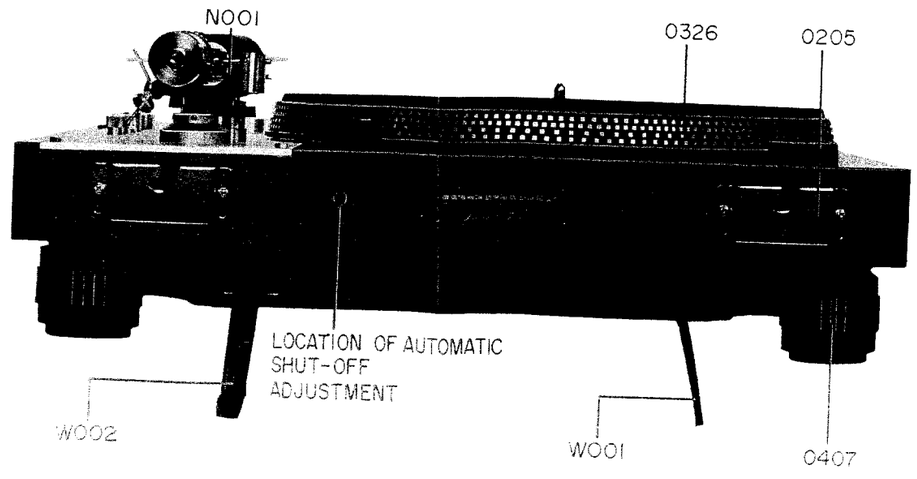


6. MAJOR COMPONENT LOCATIONS

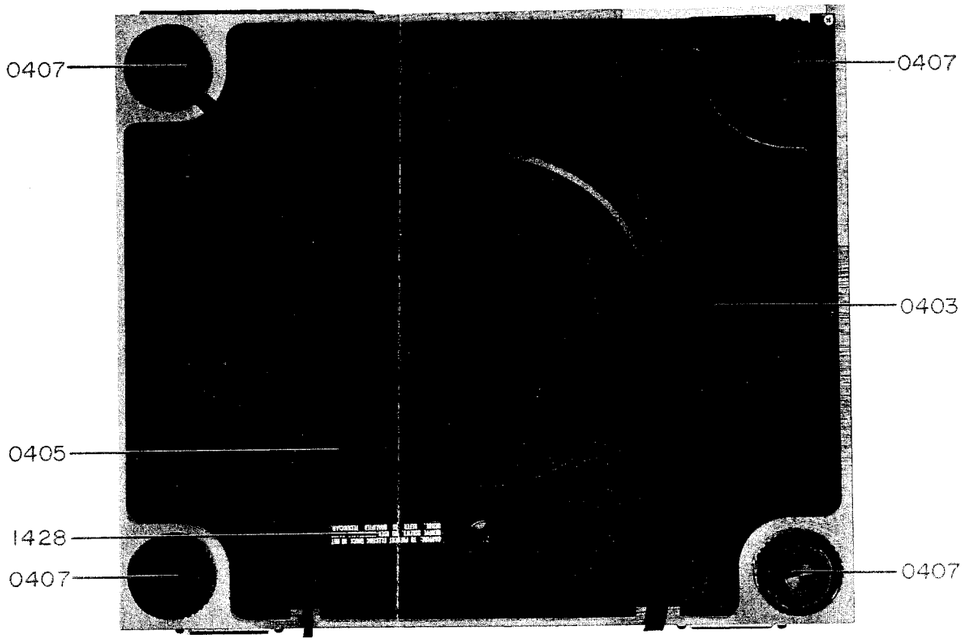
6-1. CABINET-TOP VIEW



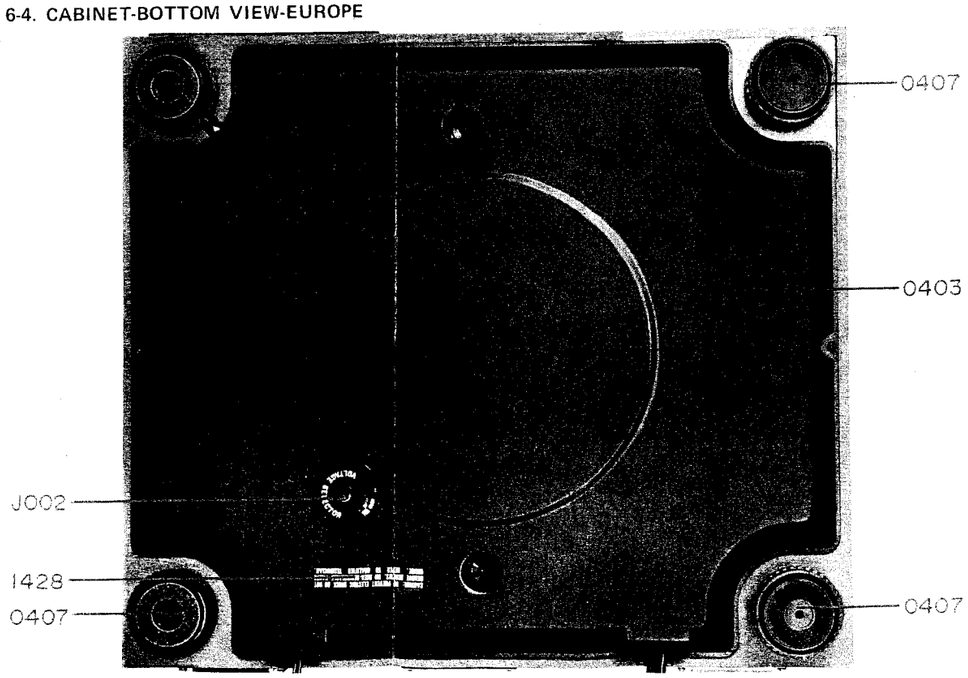
6-2. CABINET-REAR VIEW



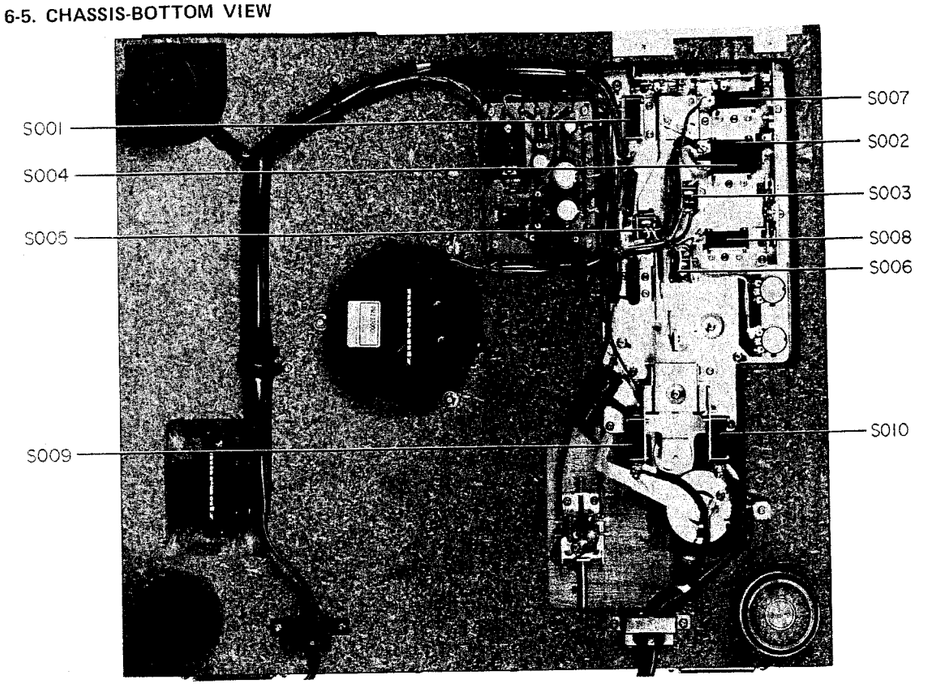
6-3. CABINET-BOTTOM VIEW



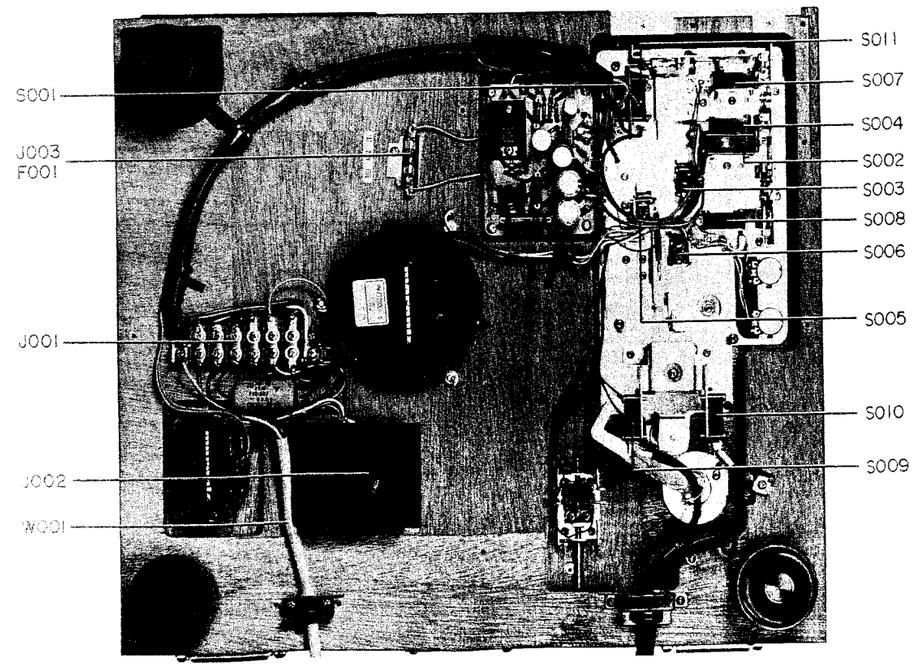
6-4. CABINET-BOTTOM VIEW-EUROPE



6-5. CHASSIS-BOTTOM VIEW

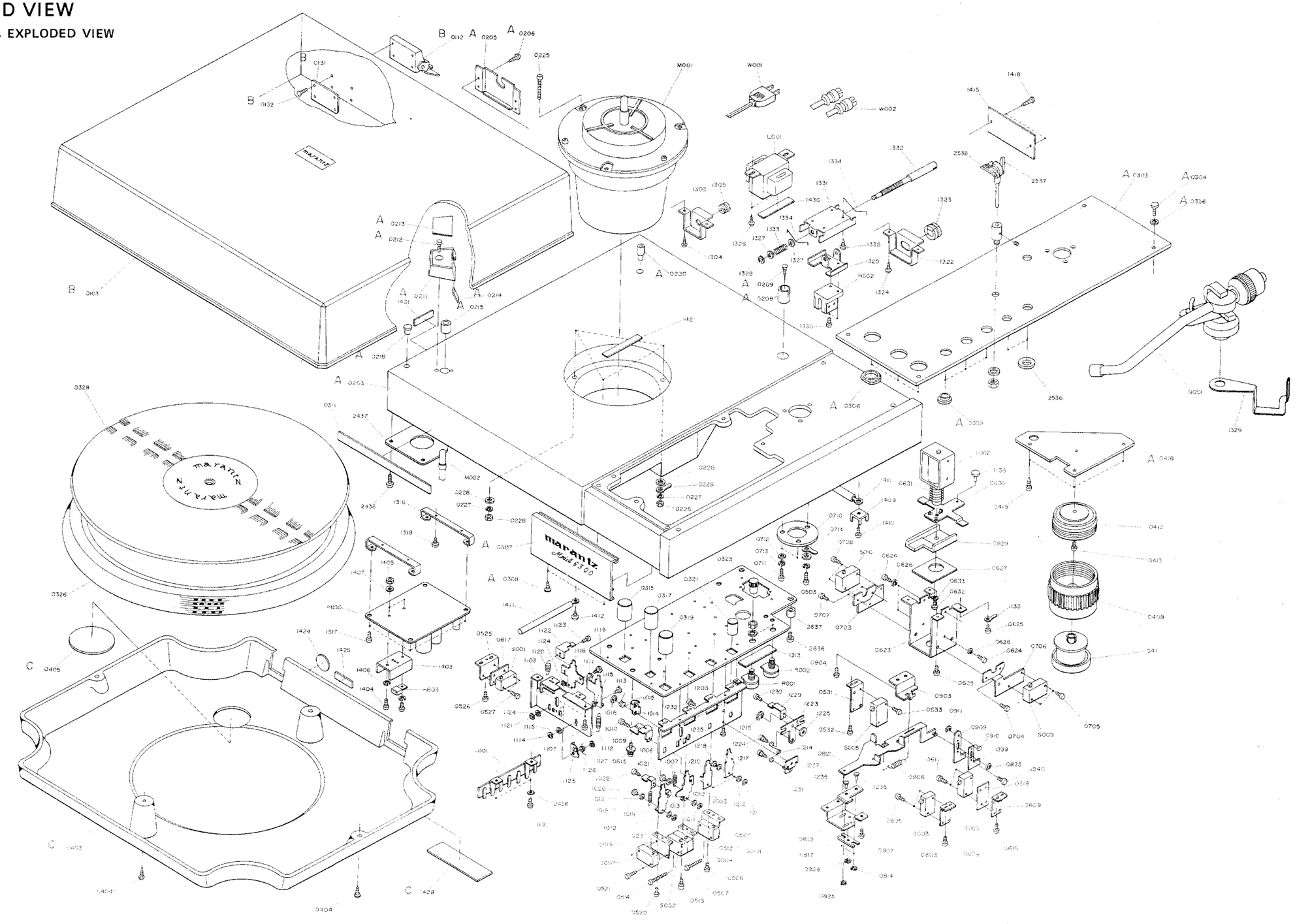


6-6. CHASSIS-BOTTOM VIEW-EUROPE

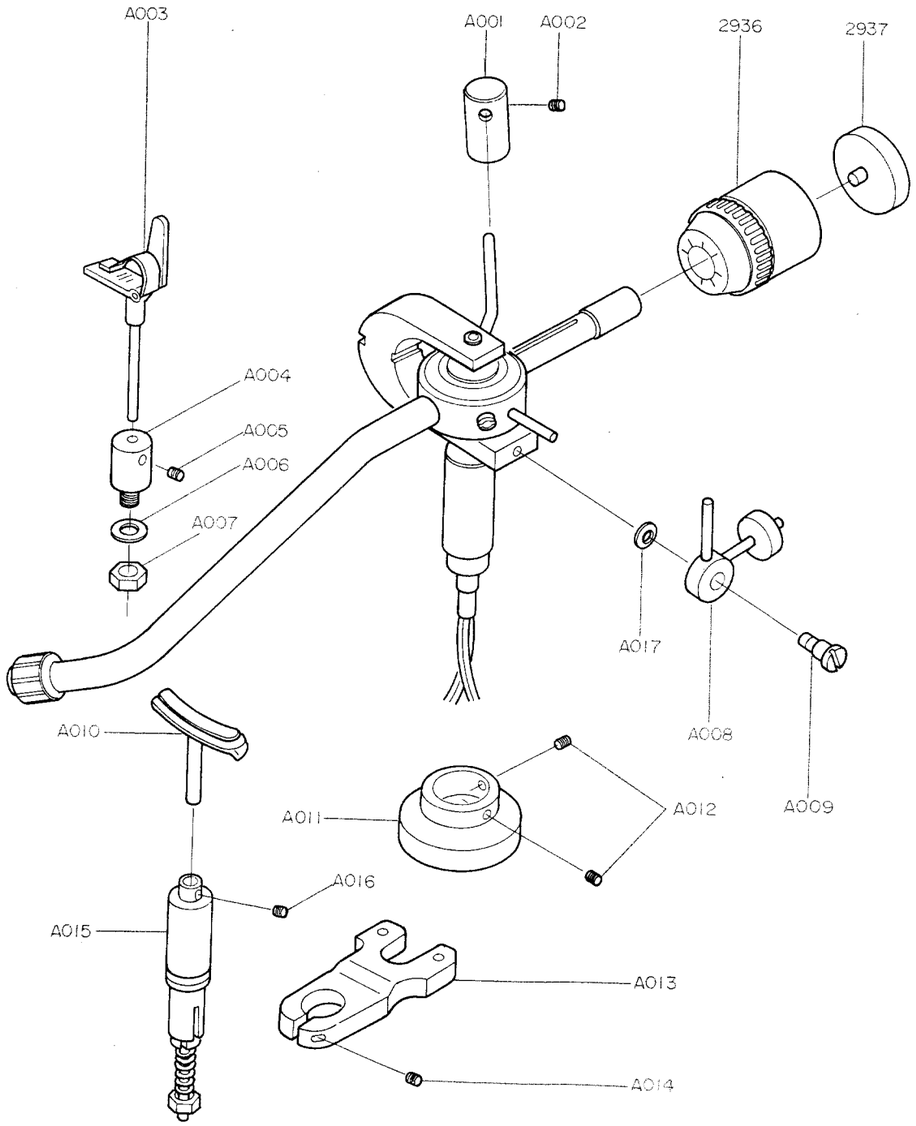


7. EXPLODED VIEW

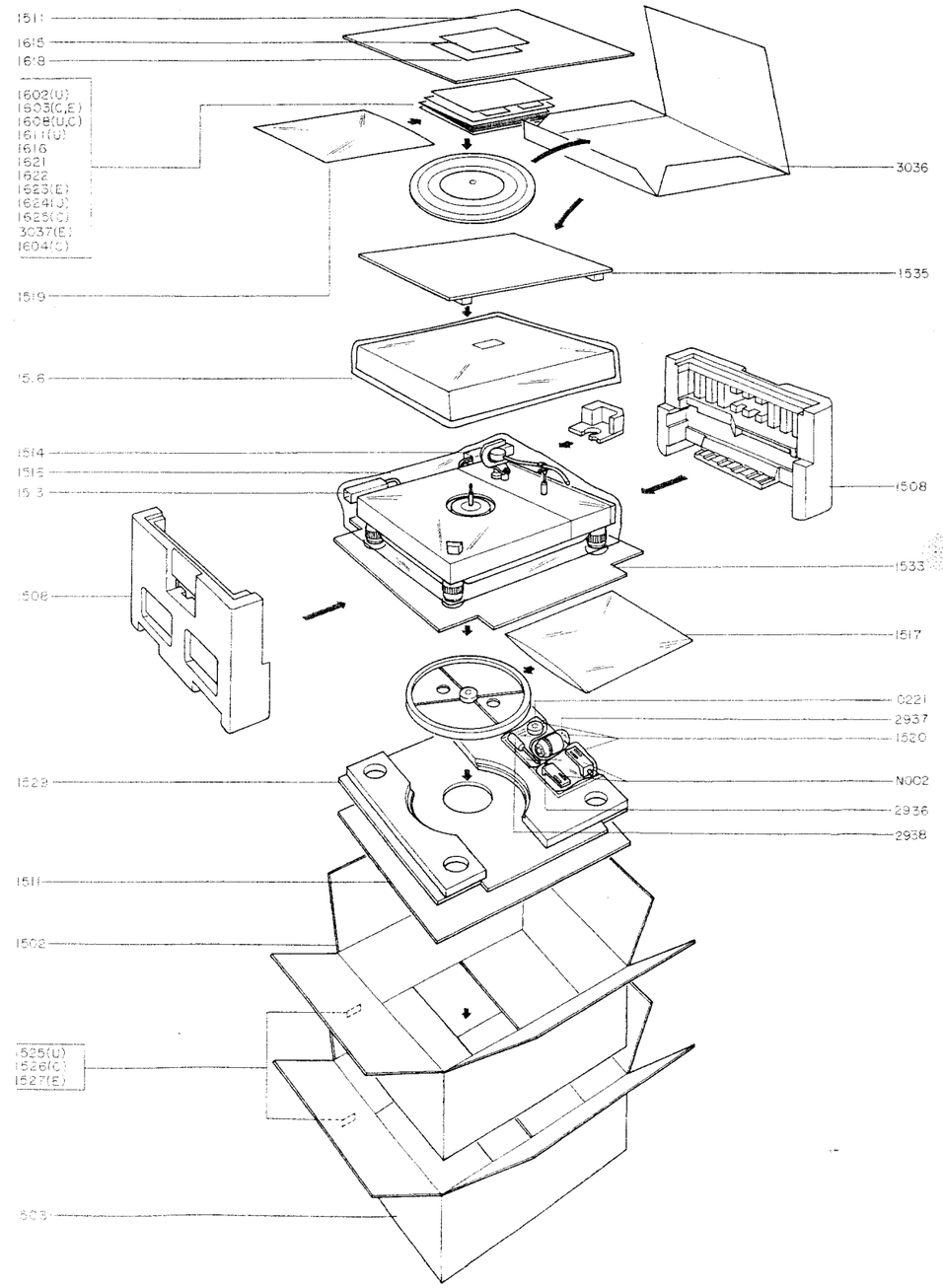
7-1. MECHANICAL EXPLODED VIEW



7-2. TONE ARM EXPLODED VIEW



7-3. PACKING MATERIAL EXPLODED VIEW



8. PARTS LIST

U: For U.S.A.
C: For Canada
E: For Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
A	1	1	1	293906440	Case Assembly
0203	1	1	1	293906401	Case
0205	2	2	2	293916011	Bracket
0206	8	8	8	51522716C	R.H. Wood Screw
0208	1	1	1	293925902	Bushing
0209	1	1	1	51543113S	F.H. Wood Screw
0211	1	1	1	293906402	Case, Strobe Lamp
0212	1	1	1	51523120B	R.H.Wood Screw
0213	1	1	1	293926501	Indicator
0214	1	1	1	293915801	Window
0215	1	1	1	293927102	Holder
0218	2	2	2	461825915	Bushing
0220	1	1	1	293910402	Retainer
0303	1	1	1	293906301	Escutcheon
0304	4	4	4	52014099J	Bolt
0305	3	3	3	295125902	Bushing
0306	3	3	3	295125901	Bushing
0307	1	1	1	293906302	Escutcheon
0308	2	2	2	51543113A	Flat H. Wood Screw
0311	1	1	1	293926502	Label
0336	4	4	4	293911801	Spacer
0418	1	1	1	293916013	Bracket
0419	3	3	3	51543113S	Flat H. Wood Screw
0536	2	2	2	295125903	Bushing
M002	1	1	1	IN2120001	Lamp, Strobe
B	1	1	1	293905340	Dust Cover Assembly
0103	1	1	1	293905350	Dust Cover K
0112	2	2	2	293915350	Hinge K
0131	2	2	2	293916012	Bracket
0132	8	8	8	51140308F	F.H.M. Screw, F3x8
C	1	1		293925740	Bottom Lid Assembly
C1			1	293925741	Bottom Lid Assembly
0403	1	1	1	293925701	Lid
0405	1	1		293905302	Cover
1428	1	1	1	388986101	Label
0221	1	1	1	293910403	Retainer, Spindle 45 RPM
0225	3	3	3	51100340B	B.H.M. Screw, B3x40
0226	3	3	3	53110301A	Hexagon Nut
0227	3	3	3	54040302N	Spring Washer
0228	3	3	3	54020301A	Flat Washer P
0315	1	1	1	293915401	Knob, Power
0317	1	1	1	293915402	Knob, Cue Down
0319	1	1	1	293915403	Knob, Cue Up
0321	3	3	3	293915404	Knob, Selector
0323	2	2	2	293915405	Knob, Pitch
0326	1	1	1	293916501	Turntable
0328	1	1	1	293910750	Mat, Turntable
0404	4	4	4	51523516S	R.H. Wood Screw
0407	4	4	4	293905750	Foot Assembly
0413	1	1	1	51100308B	B.H.M. Screw, B3x8
0414	3	3	3	51523116A	R.H. Wood Screw
0418	1	1	1	293916013	Bracket
0419	3	3	3	51543113S	Flat H. Wood Screw
0503	1	1	1	293910501	Chassis
0505	1	1	1	293916005	Bracket

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
0506	1	1	1	51570305B	P.H. Tapped Screw, P3x5ST
0507	2	2	2	51570314B	P.H. Tapped Screw, P3x14ST
0512	1	1	1	293916005	Bracket
0513	1	1	1	51570305B	P.H. Tapped Screw, P3x5ST
0514	2	2	2	51570325B	P.H. Tapped Screw, P3x25ST
0519	1	1	1	293916005	Bracket
0520	1	1	1	51570305B	P.H. Tapped Screw, P3x5ST
0521	2	2	2	51570314B	P.H. Tapped Screw, P3x14ST
0525	1	1	1	293916005	Bracket
0526	1	1	1	51570305B	P.H. Tapped Screw, P3x5ST
0527	2	2		51570314B	P.H. Tapped Screw, P3x14ST
0531	1	1	1	293916007	Bracket
0532	1	1	1	51570305B	P.H. Tapped Screw, P3x5ST
0533	2	2	2	51100312B	P.H. Tapped Screw, P3x14ST
0603	1	1	1	293916007	Bracket
0604	1	1	1	51570305B	P.H. Tapped Screw, P3x5ST
0605	2	2	2	51100312B	P.H. Tapped Screw, P3x14ST
0609	1	1	1	293916007	Bracket
0610	1	1	1	51570305B	P.H. Tapped Screw, P3x5ST
0611	2	2	2	51100314B	P.H. Tapped Screw, P3x14ST
0615	4	4	4	51480308A	B.H.M. Screw, B3x6
0617	2	2	2	293912001	Insulator
0623	1	1	1	293916006	Bracket
0624	4	4	4	51100304A	B.H.M. Screw, B3x4
0625	4	4	4	51570305B	P.H. Tapped Screw, P3x5ST
0627	1	1	1	293905602	Insulator
0629	1	1	1	293900512	Bracket
0630	1	1	1	293900508	Push Plate
0631	1	1	1	293911510	Spring
0632	1	1	1	51100306B	B.H.M. Screw, B3x6
0633	1	1	1	54040302N	Spring Washer
0703	1	1	1	293916008	Bracket
0704	2	2	2	51100305A	B.H.M. Screw, B3x5
0705	2	2	2	51570314B	P.H. Tapped Screw, P3x14ST
0706	1	1	1	293916009	Bracket
0707	2	2	2	51100305A	B.H.M. Screw, B3x5
0708	2	2	2	51570314B	P.H. Tapped Screw, P3x14ST
0710	1	1	1	293916010	Bracket
0711	3	3	3	51100316A	B.H.M. Screw, B3x16
0712	3	3	3	54020301E	Flat Washer P
0713	3	3	3	54040302N	Spring Washer
0803	1	1	1	293916052	Bracket K
0806	1	1	1	64000200R	RG Ring E
0807	4	4	4	51570305B	P.H. Tapped Screw, P3x5ST
0814	2	2	2	64000200R	RG Ring E
0817	1	1	1	293935409	Lever
0821	1	1	1	293935455	Lever K
0825	2	2	2	64000200R	RG Ring E
0836			2	51570325B	P.H. Tapped Screw, P3x25
0903	1	1	1	293910401	Retainer
0904	2	2	2	51570305B	P.H. Tapped Screw, P3x5ST
0906	1	1	1	293911505	Spring
0909	1	1	1	293935411	Lever
0910	1	1	1	293911207	Shaft
0911	1	1	1	64000200R	RG Ring E
1003	1	1	1	293935452	Lever K
1007	1	1	1	71101389L	Spring
1008	1	1	1	293911204	Pin
1009	1	1	1	293900502	Clamper
1010	1	1	1	51100304B	B.H.M. Screw, B3x4
1011	1	1	1	64000200R	RG Ring E
1012	2	2	2	59035402G	Washer
1014	1	1	1	306910202	Lock
1015	1	1	1	293911509	Spring
1016	1	1	1	64000200R	RG Ring E
1018	1	1	1	293935405	Lever
1019	1	1	1	71101389L	Spring

U: For U.S.A.
C: For Canada
E: For Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
1020	1	1	1	293911204	Pin
1021	1	1	1	293900503	Clamper
1022	1	1	1	51100304B	B.H.M. Screw, B3x4
1103	1	1	1	293916051	Bracket K
1107	2	2	2	51570306B	P.H. Tapped Screw, P3x6ST
1111	1	1	1	293935406	Lever
1112	1	1	1	71101389L	Spring
1113	1	1	1	293911204	Pin
1116	1	1	1	293935453	Lever K
1119	1	1	1	293911204	Pin
1120	1	1	1	71101389L	Spring
1121	1	1	1	64000200R	RG Ring E
1122	1	1		293900504	Clamper
1123	1	1	1	51100304B	B.H.M. Screw, B3x6
1124	2	2	2	59035402G	Washer
1125	1	1	1	306910202	Lock
1126	1	1	1	293911509	Spring
1127	1	1	1	64000200R	RG Ring E
1131	2	2	2	51570306B	P.H. Tapped Screw, P3x6ST
1133	1	1	1	62030039W	Lug
1136	1	1	1	293900401	Table
1203	1	1	1	293916050	Bracket K
1208	2	2	2	64000200R	RG Ring E
1210	1	1	1	293935401	Lever
1211	4	4	4	64000200R	RG Ring E
1212	8	8	8	59035402G	Washer
1213	1	1	1	71101389L	Spring
1214	1	1	1	293911502	Spring
1215	1	1	1	64000400R	RG Ring E
1217	1	1	1	293935402	Lever
1218	2	2	2	293911204	Pin
1220	1	1	1	71101389L	Spring
1223	1	1	1	293935403	Lever
1224	2	2	2	51202603A	Screw
1225	1	1	1	293905501	Collor
1226	1	1	1	51100310B	B.H.M. Screw, B3x10
1227	1	1	1	54020301E	F. Washer
1229	1	1	1	293900501	Clamper
1230	1	1	1	51100304B	B.H.M. Screw, B3x4
1231	1	1	1	293916020	Bracket
1232	1	1	1	51100304A	B.H.M. Screw, B3x4
1235	3	3	3	51570306B	P.H. Tapped Screw, P3x6ST
1236	1	1	1	293935412	Lever
1237	1	1	1	293911210	Pin
1238	1	1	1	293911211	Pin
1239	1	1	1	293900513	Clamper
1240	2	2	2	51442604B	L. Washer Screw
1303	1	1		293916014	Bracket
1304	2	2	2	51523113A	R.H. Wood Screw
1305	1	1		145525903	Bush, AC Cord
1309			1	293916015	Bracket
1310			2	51040306S	F.H.M. Screw, F3x6
1311			2	51523113A	R.H. Wood Screw
1313	1	1	1	293912002	Insulator
1316	2	2	2	285016005	Bracket
1317	4	4	4	51100305B	B.H.M. Screw, B3x5
1318	4	4	4	51523113A	R.H. Wood Screw
1322	1	1	1	293900510	Clamper
1323	1	1	1	145525908	Bushing
1324	2	2	2	51523113A	R.H. Wood Screw
1325	1	1	1	293916019	Bracket
1326	2	2	2	51523113A	R.H. Wood Screw
1327	3	3	3	54020301E	Flat Washer P
1328	1	1	1	64000200R	RG Ring E
1329	1	1	1	293910902	Shield
1330	2	2	2	51100308B	B.H.M. Screw, B3x8
1331	1	1	1	29391601B	Bracket
1332	1	1	1	293911209	Shaft

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
1333	1	1	1	293911508	Spring
1334	2	2	2	293900511	Clamper
1335	4	4	4	51523110A	R.H. Wood Screw
1403	1	1	1	273026702	Heatsink
1404	1	1	1	51100308B	B.H.M. Screw, B3x8
1405	1	1	1	53110303E	Nut
1406	1	1	1	54040302N	Spring Washer
1407	1	1	1	54050300R	T.L. Washer OR
1409	1	1	1	291012301	Terminal
1410	1	1	1	51523113A	R.H. Wood Screw
1411	6	6	6	287100501	Clamper
1415	1			293926510	Plate
1416		1		293926511	Plate
1417			1	293926512	Plate
1418	2	2	2	51523113S	R.H. Wood Screw
1421	1	1	1	290886101	Label
1422		1		951022101	Label
1424	1			951110106	Label, UL
1425	1			951091102	Label, UL Factory
1426		1		282186102	Label, Fuse Caution
1427		1		951091101	Label, LL No.
1430	1	1	1	293986101	Label
1502	1	1	1	293980101	Packing Case, Inner
1503	1	1	1	293980111	Packing Case, Outer
1508	2	2	2	293980301	Cushion
1511	2	2	2	293980701	Reinforcing
1513	1	1	1	102980401	Sleeve, AC Cord
1514	1	1	1	286480401	Sleeve, Output Cord
1516	2	2	2	901453835	Polyethylene Bag, Set
1517	1	1	1	901334001	Polyethylene Bag, Turntable
1519	1	1	1	901302501	Polyethylene Bag, Booklet
1520	3	3	3	901100510	Polyethylene Bag, Accessories
1525	4			952281501	Serial No. Card
1526		4		952301512	Serial No. Card
1527			4	952301511	Serial No. Card
1529	1	1	1	293980350	Partitioner K
1530	1	1	1	293980702	Reinforcing
1531	1	1	1	293980302	Partitioner
1532	1	1	1	293980303	Partitioner
1533	1	1	1	293980702	Reinforcing
1535	1	1	1	293980704	Reinforcing
1536			1	293900514	Clamper
1602	1			293985101	Instruction Manual, Set
1603		1	1	293985131	Instruction Manual, Set
1604		1		288685110	Instruction Manual, Leaflet
1608	1	1		293985601	Schematic Diagram
1615	1	1	1	293985102	Instructions, Packing
1616	1	1	1	293985103	Instructions, Accessories
1618	1	1	1	281885104	Instructions, Packing
1621	1	1	1	257785401	Guarantee Card
1622	1	1	1	257785102	Instructions, Red Tag
1623			1	281881301	Envelope
1624	1			257781301	Envelope
1625		1		291881301	Envelope
1627	1			966000001	QC Card
1628	1			281881301	Polyethylene Bag
1836			1	293916021	Bracket
1837			1	54050400R	T.L. Washer OR
1838			1	62041760W	Lug
2237			1	293906403	Case
2436	1	1	1	54050300R	T.L. Washer OR
2437	1	1	1	293905312	Cover
2438	3	3	3	51523113S	R.H. Wood Screw
2536	2	2	2	293905310	Cover
2537	1	1	1	293927103	Holder

U: For U.S.A.
C: For Canada
E: For Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
2538	1	1	1	293927104	Holder
2636	2	2	2	51523113A	R.H. Wood Screw
2637	2	2	2	281805501	Flat Washer P
2836			1	288286102	Label
2837			1	288286103	Label
2936	1	1	1	293900801	Counter Weight, Large
2937	1	1	1	293900802	Counter Weight, Small
2938	1	1	1	293916401	Adjuster
3036	1	1	1	293905311	Cover
3037			1	293985602	Schematic Diagram
					POWER SUPPLY CIRCUIT BOARD-P800
P800	1	1	1	YD2939001	P.W. Board, Power Supply (Print Only)
	1	1	1	ZZ2939001	P.W. Board Assembly
					P800-SPACER & RESISTORS
P808	8	8	8	293311802	Spacer
R801	1	1	1	GJ0515003	Resistor, 15Ω ±5%, 3W
R802	1	1	1	GJ0522002	Resistor, 22Ω ±5%, 2W
R803	1	1	1	RT0515214	Resistor, 1.5KΩ ±5%, ¼W
R804	1	1	1	RT0510014	Resistor, 10Ω ±5%, ¼W
R805	1	1	1	RT0510414	Resistor, 100KΩ ±5%, ¼W
R806	1	1	1	GF0510212	Resistor, 1KΩ ±5%, ½W
R807	1	1	1	RT0515314	Resistor, 15KΩ ±5%, ¼W
R808	1	1	1	RT0510214	Resistor, 1KΩ ±5%, ¼W
R809	1	1	1	RT0515314	Resistor, 15KΩ ±5%, ¼W
					P800-CAPACITORS
C801	1	1	1	DK1810351	Ceramic, 0.01μF, 200V
C802	1	1	1	EA4770509	Electrolytic, 470μF, $^{+100}_{-10}$%, 50V
C803	1	1	1	EA3370509	Electrolytic, 330μF, $^{+100}_{-10}$%, 50V
C804	1	1	1	EA2270259	Electrolytic, 220μF, $^{+100}_{-10}$%, 25V
C805	1	1	1	EA1070259	Electrolytic, 100μF, $^{+100}_{-10}$%, 25V
					P800-SEMICONDUCTORS
H801	1	1	1	HD2001810	Diode, C08P N
H802	1	1	1	HD2001910	Diode, C08P R
H803	1	1	1	HT403311D	Transistor, 2SD331 D
H804	1	1	1	HD3003009	Diode, WZ-177
H805	1	1	1	HB0000306	Thyristor, 2P1M
					P800-PLUGS
J801 ~ J814	14	14	14	YP1000113	Plug, Solderless
					GENERAL MISCELLANEOUS
S001	1	1	1	SM0102008	Switch, Power (1)
S002	1	1	1	SM0102008	Switch, Auto-Manual (1)
S003	1	1	1	SM0102008	Switch, Auto Power
S004	1	1	1	SM0102008	Switch, Auto-Manual (2)
S005	1	1	1	SM0102008	Switch, Auto Motor ON-OFF
S006	1	1	1	SM0102008	Switch, SCR ON-OFF
S007	1	1	1	SM0102008	Switch, Cue-Up
S008	1	1	1	SM0102008	Switch, 33-⅓-45 rpm Selector
S009	1	1	1	SM0102008	Switch, Output ON-OFF Auto Mute
S010	1	1	1	SM0102008	Switch, Output ON-OFF Auto Mute
S011			1	SM0102008	Switch, Power
L001	1	1		TS1412701	Power Transformer, UL, CSA
L001			1	TS1481305	Power Transformer, SEMKO
L002	1	1	1	ME1043002	Solenoid Coil
N001	1	1	1	PA1223101	Tone Arm
N002	2	2	2	YS0204001	Shell
M001	1	1	1	PM2330001	Phonomotor, DC

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
R001	1	1	1	RK0102007	Variable Resistor, 1KΩ (B)
R002	1	1	1	RK0102007	Variable Resistor, 1KΩ (B)
R003	1	1	1	RC1010312	Resistor, 10KΩ ±10%, ½W
R004			1	RC1015112	Resistor, 150Ω ±10%, ½W
W001	1	1	1	YC0240010	AC Cord
W002	1	1	1	YB0120001	Connector Cord, RCA Pin Type
H001	1	1	1	HD2000321	Diode, 1S2471 (BLK)
H002	1	1	1	HW1000128	Photo Unit,
C001	1	1		DF1710455	Film Cap., 0.1μF, 125V
C002	1	1		DF1710455	Film Cap., 0.1μF, 125V
C001			1	DF1710480	Film Cap., 0.1μF, 450V
C003	1	1	1	EV1050256	Electrolytic Cap., 1μF ±20%, 25V
C004			1	DF1747380	Film Cap., 0.047μF, 1000V
J001	1	1	1	YL0107008	Terminal, 7P
J002			1	BY0311001	Terminal, Voltage Conversion
J003			1	YJ0800009	Socket, Fuse
F001			1	FS1010090	Fuse, 1A SGA
					TONE ARM ASSEMBLY
A001	1	1	1	293900001	Weight, Lateral Balance
A002	1	1	1	516403058	Set Screw C.P.
A003	1	1	1	293900003	Arm Rest
A004	1	1	1	293900004	Holder, Arm Rest
A005	1	1	1	293900005	Screw
A006	1	1	1	293900006	F. Washer
A007	1	1	1	293900007	Nut
A008	1	1	1	293900008	Anti-Skating, Lever
A009	1	1	1	293900009	Screw
A010	1	1	1	293900010	Table, Lifter
A011	1	1	1	293900011	Base, Tone Arm
A012	2	2	2	293900012	Screw
A013	1	1	1	293900013	Retainer
A014	1	1	1	293900014	Screw
A015	1	1	1	293900015	Lifter
A016	1	1	1	293900016	Screw
A017	1	1	1	293900017	Ring

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